$$372 = m_1 \cdot 5! + m_2 \cdot 4! + m_3 \cdot 3! + m_4 \cdot 2! + m_5 \cdot 1! + \Delta$$

 $372 = 120 m_1 + 24 m_2 + 6 m_3 + 2 m_4 + m_5 + 4$
 $371 = 120 m_1 + 24 m_2 + 6 m_3 + 2 m_4 + m_5$

$$\frac{371:120=3=m_1}{360}$$

$$\frac{11:24=0=m_2}{0}$$

$$\frac{11:6=1=m_3}{5:2=2=m_4}$$

$$\frac{1:1=1=m_5}{0}$$

10	2	3	43	5	6	m
4	1	2	3	5	6	$m_1 = 3$
4	1	1 2	3	5	6	$m_2 = 0$
4	1	3	12	5	6	m3 = 1
4	1	3	6	2	5	$m_n = 2$
4	1	3	6	5	2	ms=1

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$$4637:720=6=m,$$
 4320
 $317:120=2=m2$
 240
 $77:24=3=m3$
 72
 $5:6=0=m4$
 0
 $5:2=2=m5$
 $1:1=1=m6$
 1

1	2	3	43	5	6	7	m
7	1	2	3	4	5	6	m1= 6
7	3	5	1	2	5	6	$m_i=2$
7	3	5	1	2	4	6	m3= 3
7	3	5	1	6	2	4	ms=2
7	3	5	1	6	4	12	m6=1
7	2		/	/ 2			

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				200			
1	1	7	13	14	5	6	m
	1	1	2	3	5	6	m=3
	1	11.	1	7	3	5	m=h
-	4	6		2	2	2	7. 2
F	4	6	5		2	2	m3=3
-	4	6	5	Λ	2	5	m4 = 0
1	4	6	5	1	3	2	mg= 1

 $\pi = 3.5! + 4.4! + 3.3! + 0.2! + 1.1! + 1$ $\pi = 3.120 + 4.24 + 3.6 + 1.41$ $\pi = 360 + 96 + 18 + 2$ $\pi = 476$

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					· · · · · · · · · · · · · · · · · · ·		7	7
10	2	3	1 2	55	6 5/	7'	82	m
6	1	2	.3	h	5	7	8	m1=5
6	8	1	2	3	4	5	7	m2 = 6
6	8	3	1	2	4	5	7	m 7
6	8	3	4	1	2	5	7	m4= 2
6	Y	3	4	1	2	5	7	ms=0
6	8	3	4	1	2	5	7	
6	8	3	4	1	2	7	5	m=1

T=5.7; +6.6! +2.5!+2.4!+

12=5.7; +6.6! +2.5!+2.4!+

12=5.040.5+720.6+120.2+24.2

+2

12=25200+9320+240+42+2

12=25200+9320+240+42+2

1.13	2	32	33	2 4	1 5	16	57	5 ×	19	
. 1	2)	4	17	5	15	6	m
6	1	2	3	3	3	4	4	5	5	m1=9
6	3	1	2	3	3	4	4	5	5	m2: 2
6	3	4	1	2	3	3	4	5	5	m3 = 4
6	3	4	1	2	3	3	5	5	5	m4=0
6	3	4	1	2	3	3	4	5	5	m5=0
6	3	4	1	2	5	3	3	h	5	me=3
6	3	1	1	2	5	3	3	4	5	m7=0
6	3	14	1	2	5	3	1	3	5	m8=1
6	2	2/ 4	1	2	5		3 4	3	4 5	mg=0
6	3	4	. 1	2	15		3 4	3	5	
		•								0

$$\Pi = 3 \cdot P_{3,2,2}(9) + 2 \cdot P_{3,2,2}(8) + 4 \cdot P_{2,2,2}(7) + 9 \cdot P_{2,2}(6) + 9 \cdot P_{2,2}(5) + 3 \cdot P_{2,2}(4)$$

$$+ 0 \cdot P_{2}(3) + 1 \cdot P(2) + 0 \cdot P(4) + 1$$

$$T = 9 \cdot \frac{9!}{3! \cdot 2! \cdot 2!} + 2 \cdot \frac{8!}{3! \cdot 2! \cdot 2!} + 4 \cdot \frac{7!}{2! \cdot 2! \cdot 2!} + 3 \cdot \frac{4!}{2! \cdot 2!} + 1$$

$$7 = 9 \cdot \frac{9 \cdot 8 \cdot 7 \cdot 6 \cdot 5 \cdot 43 \cdot 7}{3! \cdot 2 \cdot 2!} + 2 \cdot \frac{8 \cdot 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3!}{3! \cdot 2 \cdot 2} + 4 \cdot \frac{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3!}{2! \cdot 2!} + 3 \cdot \frac{4 \cdot 3 \cdot 2!}{2 \cdot 2!}$$

n		١	
`	1	1	
_	٠,	/	
	0	9	9)

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1	1	1	2	2	2	3	3	.5	5	6	7	m
7	1.	1	1	2	2	2	3	3	5	5	6	m1-11
7	3	1	1	1	2	2	2	3	5	5	6	m1=6
7	3	5	1	1	1	2	2	2	3	5	6	m3 = 7
	3	5	2	11	1	1	2	2	3	5	6	my= 3
	3	5	2	2	11	1	1	2	.3	5	6	ms=3
-	3	5	2	2	1	1	n	2	3	5	6	my: O
-	3	5	2	2	1	5	1	1	2	3	6	m7=6
7	3	5	2	2	1	5	3	11	. 10	1 2	6	m=3
7	3	-5	2	2	1	5	3	6	4	1/1	2	- m=3
7	5	5	2	2	1	5	3	2		1	1 2	m10=0
7	3		2	12	1/1	15	13			1 \	1 /	2+ m71=0
+	3	5	2	2	1	5	3		6	1	1	2

$$\Pi = 11 \cdot P_{3,3,2,2}(11) + 6 \cdot P_{3,3,2,2}(10) + 7 \cdot P_{3,3,1}(9) + 3 \cdot P_{3,3}(8) + 3 \cdot P_{3,2}(7) + 0 \cdot P_{3}(6) + 4 \cdot P_{2}(5) + 3 \cdot P_{2}(4) + 3 \cdot P_{2}(3) + 0 \cdot P_{2}(2) + 0 \cdot P_{1}(1) + 1$$

$$7 = 11 - \frac{11!}{3! \cdot 3! \cdot 2! \cdot 2!} + 6 - \frac{10!}{3! \cdot 3! \cdot 2! \cdot 2!} + 7 - \frac{9!}{3! \cdot 3! \cdot 2!} + 3 - \frac{7!}{3! \cdot 3! \cdot 2!} + 3 - \frac{7!}{3! \cdot 3! \cdot 2!} + 3 - \frac{5!}{2!} + 3 - \frac{4!}{2!} + 3 - \frac{5!}{2!} + 1$$

$$7 = 11. \frac{39916800}{144} + 6. \frac{3628800}{144} + 7. \frac{362880}{72} + 3. \frac{40320}{36} + 3. \frac{5040}{36} + 48. \frac{120}{2} + 3. \frac{24}{2} + 3. \frac{6}{2} + 1$$

n=11,27+200+6.25100+7.5040+3.1120+3.280+4.60+3.12

+3-3+1

17=3049200+151200+35280+3360+840+240+36+9+1=3240166

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12)
$$h=6$$

 $6-2=5$
 $P(4)=4!=24-mempe$

$$C_h = \frac{N!}{k! \cdot (h-k)!} = \frac{30!}{3! \cdot 27!} = \frac{5}{30 \cdot 29 \cdot 22 \cdot 27!} = 5 \cdot 29 \cdot 28 = h 060 - menyro$$

6)
$$n=30 = 30!$$

$$C_{h} = \frac{30!}{30! \cdot 0!} = \frac{30!}{30! \cdot 1} = 1 - minyre$$

4)
$$N=h2 = 3$$

 $C_h = \frac{42!}{3! \cdot 39!} = \frac{7 \cdot 41 \cdot 40 \cdot 39!}{6 \cdot 39!} = 7 \cdot 41 \cdot 40 = 11480 - mengra$

$$V_{n}^{k} = \frac{12!}{9!} = \frac{12.11.10.81}{9!} = 1320$$

$$C_{k}^{n}$$
. $C_{k}^{n} = \frac{20!}{3! \cdot 17!} \cdot \frac{16!}{15!} = \frac{20 \cdot 13 \cdot \cancel{15} \cdot \cancel{15}!}{\cancel{15}!} \cdot \frac{16 \cdot \cancel{15}!}{\cancel{15}!} \cdot \frac{16 \cdot \cancel{15}!}{\cancel{15}!}$